

# BROOKHAVEN BULLETIN

Volume 27 - Number 21

May 25, 1973

# **High Energy Group** From China Ends Four-Day Visit

A 13-member delegation from the Scientific and Technical Association of China, who had been visiting Brookhaven Lab for the past four days, ended its visit on Friday

The visit is being hosted by the Committee on Scholarly Communication with the People's Republic of China, which is jointly sponsored by the American Council of Learned Societies, Social Science Research Council and the National Academy of Sciences

This delegation is one of the scientific groups to visit the United States agreed upon by Dr. Henry Kissinger in consultations with the People's Republic of China in February 1973. Other scientific delegations will include a team of computer experts and an insect hormone team.

Groups that have visited in the past are the table tennis team that visited in the spring of 1972, a medical delegation that visited in October 1972, a multidisciplinary group of scientists that toured in November and December of 1972, and the Shenyang Acrobatic Troupe that toured in December and January of 1972-1973. A hydrotechnical study group is currently touring the United States and will stay through early June 1973.

The delegation arrived in New York on Sunday, May 20, and will spend approximately four weeks in the United States. They are scheduled to visit Argonne National Laboratory, The National Accelerator Laboratory, Stanford Linear Accelerator, and the Lawrence Berkeley Laboratory - all unclassified installations which have been seen by many international visitors.

While at Brookhaven, the scientists spent many hours visiting in the offices and labs of Brookhaven's high energy researchers, and were guests in the homes of some of the BNL staff. Group and individual conferences were held in order to give the visitors a chance to see the advances in high energy physics that have occurred in the United States in the past two decades.

On Thursday evening the group was honored with a reception and dinner in Berkner Hall hosted by Associated Universities, Inc. and the Director of Brookhaven National Laboratory.

After leaving Brookhaven on Friday morninig, the group traveled by bus to Stony Brook for a short tour of the State University before returning to New York.

### No Bulletin Next Week

Because of the long Memorial Day holiday, the Brookhaven Bulletin will not be published on Friday, June 1.



Before boarding a bus for a short tour of the Lab, members of the visiting delegation posed for a picture with Brookhaven staff members.

# **ACA Warren Award** To Shirane and Axe

Gen Shirane and John D. Axe, both of the Physics Department, have been named joint winners of the 1973 Bertram Eugene Warren Diffraction Physics Award. Presentation of the award will be at the American Crystallographic Association's June meeting at the University of Connecticut in

Shirane and Axe were cited for their joint work on lattice and molecular dynamics, primarily as studied by inelastic scattering of neutrons. Selection for the award has been in process for the past year, with nominations solicited from over one hundred of the better known crystallographers representing 17 countries

After completing his Ph.D. at the University of California in Berkeley (1960), Axe was an NSF Fellow at Johns Hopkins University. He was subsequently with the IBM Research Center in Yorktown Heights, New York (1962-68) before joining Brookhaven in 1969. His major scientific interests are in crystal field effects in rare-earth ions, infrared optical properties of solids, and the study of collective excitations in solids with inelastic neutron scattering.

Shirane, who received the American Physical Society's Buckley Prize in March for similar work, is primarily interested in the study of ferroelectric, structural and magnetic phase transitions.



Shortly after the delegation arrived at Brookhaven a discussion on high energy physics was underway with Professor Chang Wen-yu (second from left) who was head of the group of visiting scientists. To the left is Special Consultant to the Director Leland Haworth. Third from left is Laboratory Director George Vineyard, and Associate Director for High Energy Physics R. Ronald

# **Perimeter Marathon** Set For Next Friday

Brookhaven's second Perimeter Marathon is scheduled for a 5:15 starting gun next Friday, June first. Entrants are asked to report to the starter at the Meteorology Building on Brookhaven Avenue as close to the starting time as possible.

Robert Powell, Reactor, will again be official starter, and will be assisted by Jack Phillips and Jerry Kinne. Assistant timekeepers will be Georgia Irving and Mrs. A. Prince. It is hoped that members of the Radio Club will again assist with keeping track of the runers as they proceed through the ten-mile course.

Entry for this event is restricted to active employees of the Laboratory. Another run projected for the Fall of the year will be open to all runners. Entrants will be asked this year to report to the starter if they drop out of the race before finishing.

While plans are not yet completed for awards, it is expected that a trophy will be presented to the winner. Awards to all finishers are being discussed, but at this writing have not been settled. As in the past event, the cafeteria caterers will again cooperate by supplying refreshments to the runners and officials.

IAEA Opening Details posted at Office of Scientific Personnel, 40 Brookhaven Ave.



Dr. Ling-Lie Wang, Physics Department, chats with members of the visiting delegation from the People's Republic of China in Berkner Hall. Dr. Wang interpreted welcoming remarks made to the delegation by Lab Director George

# **Diners Note**

Memorial Day and the day following are BNL Holidays, affording most of us a fourday weekend, May 26, 27, 28 and 29.

The Brookhaven Center will be closed on Saturday, Sunday and Monday and will reopen on Tuesday, May 29 at 5:00 p.m.

The Cafeteria will maintain normal holiday hours of 9:00 a.m. until 2:00 p.m. on each of the four days, Saturday through

The Vended Food Service in Building 912 will be in operation throughout the holidays.

### **Warren Award Winners**



Physics Department Chairman Joe Weneser (right) discusses research at the HFBR with Warren Award winners John Axe (left) and Gen Shirane (center). The two physicists were cited for their joint work on lattice and molecular dynamics.

Brookhaven Bulletin May 25, 1973

# **Science Congress Honors Awarded**

Twenty-six high school students ranging in age from 15 to 18 years competed at Brookhaven National Laboratory for top honors at the 22nd New York State Science Congress on May 17, 18 and 19, 1973.

The five girls and twenty-one boys demonstrated their science projects to a panel of six judges drawn from the scientific staff of the AEC's center for nuclear research on Long Island. Most of the contestants had already won top honors in a regional contest before becoming eligible for the statewide competition at BNL.

The 26 finalists were accompanied to Brookhaven by their teachers and their parents, and participated in a three-day program that included tours, receptions, ceremonies, and culminated in an awards banquet on Saturday night.

Opening ceremonies of the Congress began at 9 a.m. on Friday, May 18, with a welcoming address by Brookhaven Associate Director Dr. Victor P. Bond, and Dr. Matthew C. Cordaro, Manager of Environmental Engineering, Long Island Lighting Company. The public was invited to view the projects and witness the judging in the Berkner Conference Center.

Categories of projects entered in the contest were: blology, conservation, chemistry, physics, earth sciences, aerospace, and mathematics. Judges were Gerald W. Bennett, Accelerator Department; Richard H. Houghton, III, Biology Department; J.B.H. Kuper, Director's Office; Claire J. Shellabarger, Medical Department; Robert Thomas, Chemistry Department; William J. Schneider, Accelerator Department; and Professor Max Dresden, SUNY at Stony Brook.

On Friday evening, following an informal program, two "scientific answer men," Dr. Donald Borg, Medical Department and Stephen Shapiro, Accelerator Department, answered questions from the budding scientists. BNL Assistant Director Dr. R.C. Anderson was the keynote speaker at the awards banquet on Saturday night.

The Congress is sponsored by the Science Teachers Association of New York State (STANYS) with financial support from the Long Island Lighting Company. Co-chairmen of the Congress are: Edith Stillwaggon, Division Avenue High School, Levittown; and Keith W. Calkins, South Side Senior High School, Rockville Centre.

Top winners were: Clifford T. Cockerham, 16 years old, grade 11, Mexico Academy and Central, project on "A Profile Study of Sound Pollution"; Peter Goldman, 17 years old, grade 12, Valley Stream Central High School, project on "Nuclear Quadrupole Resonance Spectroscopy"; Nina Hochstim, 15 years old, grade 10, South Side Senior High School, project on "Crown Gall Disease - Transmission and Treatment"; and Martin Reynolds, 17 years old, grade 1, Patchogue-Medford High School, project on "Irradiation of Chemical Indicator Dyes," winner of a special AEC award of "A Day with a Scientist" at Brookhaven National Laboratory.

# **CREF Unit Values**

|           | 19         | 972      |         |
|-----------|------------|----------|---------|
| January   | \$48.27    | February | \$50.49 |
| March     | 51.36      | April    | 51.80   |
| May       | 53.74 June |          | 51.80   |
| July      | 51.15      | August   | 51.95   |
| September | 50.98      | October  | 50.80   |
| November  | 52.53      | December | 53.25   |
|           | 19         | 973      |         |
| January   | \$50.36    | February | \$47.11 |
| March     | 46.44      | •        |         |
|           | April      | \$43.69  |         |



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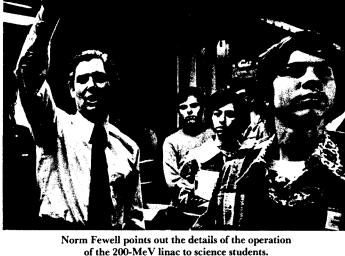


Top honors winner, Peter Goldman, presents his project to the judges in Berkner Hall on Friday.





Opening ceremonies were officiated at by Associate Director Victor Bond (left), LILCO Environmental Engineer, Dr. Matthew Cordaro (center) and Science Congress Director, Mrs. Edith Stillwaggon.



Science Congress Highlights

Banquet speaker R.C. Anderson with

High Honors winner Nina Hochstim.

of the 200-MeV linac to science students.



Ken Grist of Biology showed the touring students and teachers a model of a myoglobin molecule.



Herb Nakatani explains how plants are irradiated with gamma rays in Biology's radiation cell.



Alan Gorski studied stellar spectrospectography with a telescope.



for a study of aerodynamic forces.

# **Kayak Demonstration**

kayak demonstration and two films on kayak racing and downriver canoeing.

The films will be shown in the Gymnasium starting at 7:00 p.m. on Thursday, June 7, and the demonstration will begin in the Pool at 8:30.

All employees welcome. No admission

**Arrivals & Departures** 

Arrivals

Biology

Departures

## Holiday **Pool Schedule**

The Pool will be open this Saturday and Sunday, May 26 and 27 from 1:00 to 6:00

It will be closed on Monday and Tuesday, May 28 and 29.

The normal schedule will be resumed on Wednesday, May 30.



The BNL Mountain Club will present a

Gary Hilton adjusts controls

for his robot mechanical man.

Thomas B. Rice

None.

### Here and There

Claire Lamberti

Paul Michael (Meteorology) recently attended a conference on The Ocean, Nuclear Energy and Man at Palm Beach Shores, Singer Island, Florida; his talk was entitled "Preliminary Measurements of Over-Ocean Atmospheric Diffusion." The conference was co-sponsored by the American Nuclear Society.

Gertrude Goldhaber (Physics) lectured at several universities and laboratories on work carried out by herself and her associates, Alex Lumpkin, Michael McKeown, and William Piel, Jr. On March 15 she spoke at Los Alamos Scientific Laboratory; on March 19 at the Carnegie Mellon University in Pittsburgh; on April 5 at the State University of New York in Buffalo; and on May 9 at Rockefeller University in New York.

### **Conservation Note**

The energy crisis is real. The supplier of gasoline for government vehicles has advised that deliveries during the summer will be significantly less than our normal requirements.

We can all help. Subdue the urge to drag race or speed and, most importantly, shut off engines. An idling vehicle burns enough gas for a fresh start every 20 seconds. Prolonged idling is not only unnecessary but shortens engine life and plug life, and increases sludge in the crank case. Now we have a new effect; the next trip may be on foot.

You may want to apply these ideas to your own car too. Driving habits concerning acceleration and speed and the general tuning of your car can have marked effects on gasoline mileage. Two or three more miles per gallon isn't much, unless you have to walk or "thumb" the difference.

### Selected Reading

New Sci. 58, May 3, 1973

Restructuring higher education. O.I. Soloukhin and S.T. Belyaev. 274-5

A future for the scientist. I. Low. 287 Newsday, April 24, 1973

For C.N. Yang, physics is a creative art. E. Lane. 4A-5A+

Recherche No. 32, March 1973

Dossier: La révolte des scientifiques. P. Thuillier.

Science, 180, May 5, 1973

British science policy: After the "great debate."

J. Walsh. 477-81

The President's energy message: A challenge to

the legal profess on. W.O. Doub at the 28th Annual Meeting of the Federal Power Bar Association, Washington, D.C., May 3, 1973. AEC Press Release No. S-6-73

### Softball

Dick Ruffing

### Brookhaven League

The 1973 softball season officially opened Tuesday evening with two games scheduled in the Brookhaven League. Everything was in readiness except a little cooperation from the weatherman. Both games were called off because of wet field conditions.

National League

Wednesday night the weatherman was a little more cooperative. Although cool, the sun was shining and the season was able to get underway. The Circuits proved to be a strong contender as they defeated the EAO team 15-5. In the other game played, a strong S&M team defeated the Bio-Meds 29-5. A 13-run third inning for S&M proved too much for the Bio-Meds.

Laboratory League

The Bubble Boys ran out of numbers for the scoreboard as they defeated the Concerts 50-5. At least 10 homeruns were hit by the Bubble Boys. In the second game of the evening, George Sabine's Phoubars scored 3 runs in the bottom of the seventh inning to defeat Fred Hohmann's Charlie Browns 11-10.

### 

### Tennis Ladder

After receiving an enthusiastic response to our initial announcement, the tennis committee has decided to establish tennis ladders for men's and women's singles. The primary purpose of the ladders will be to provide a vehicle for people to meet new players and there will be no prizes awarded for order of finish. Play will begin June 15. Matches will consist of an 8-game set, and players will be required to answer challenges within two weeks or forfeit. Those who wish to sign up and who have not already done so should contact Tom Koetzle, extension 4384, biulding 555. A list of participants and detailed rules governing challenges will be posted at the Tennis Courts on June 6.

### The Spider's Web

Agatha Christie's **Spider's Web**, the production currently being prepared by the Theatre Group, will be presented in the Theater on Saturday and Sunday, June 9 and 10, and Friday and Saturday, June 15 and 16, at 8:30 p.m. Special attention is called to the Sunday performance on June 10.

Mary Kinsley, ticket chairwoman, has arranged for tickets to be sold by the following ladies in their respective departments:

| Diane Fedorenchik | HERR       |
|-------------------|------------|
| Eena-Mai Franz    |            |
|                   |            |
| Claire Hull       | Medical    |
| Helen Keeley      | AGS        |
| Mary Kinsley      | DAS        |
| Iris Mastrangelo  | Biology    |
| Ruth Otterstedt   |            |
| Christine Saitta  | Phys. Rev. |
| Marge Stoeckel    |            |
| Pat Towey         |            |
|                   |            |



Dave Miller, AGS, in charge of set construction for Spider's Web, inspects a window flat backstage at the Theater.

Tickets will also be sold at the BERA Sales and Services Office in the Cafeteria between the hours of 7:30 - 11:15 and 11:45 and 2:30.

Admission fees are:
Employee and Family \$2.00
Visitor 2.50
Under 18 and Senior Citizen 1.00

The play is a lively romp through a particularly English murder with the surprise ending expected from Agatha Christie.

Bring your family and friends to **Spider's Web** and you will have a charmingly entertaining evening.

Iris Mastrangelo

### Cafeteria Menu Week Ending June 1, 1973

Monday and Tuesday, May 28 and 29 Snack Bar Open 9:00 a.m. to 2:00 p.m. Wednesday, May 30 Vegetable Soup

| Wednesday, May 30                 |      |
|-----------------------------------|------|
| Vegetable Soup                    |      |
| Chinese Pepper Steak on Rice      | .99  |
| Chicken Stew Casserole            | .90  |
| Fish Fillet Parmesan & 1 Veg.     | .99  |
| Thursday, May 31                  |      |
| Turkey Noodle Soup                |      |
| Grilled Ham & Cheese on Toasted   |      |
| English w/Pickled Beets           | .85  |
| Veal Patty w/Noodles Oregano      | .90  |
| Braised Beef a la Mode & 1 Veg.   | 1.05 |
| Friday, June 1                    |      |
| Clam & Celery Soup                |      |
| Fried Shrimp w/Tartar Sauce       |      |
| & French Fries                    | 1.05 |
| Barbequed Breast of Lamb & 1 Veg. | .99  |
| Broiled Halibut w/Carlton Butter  |      |
| & 1 Veg.                          | .99  |



Mrs. Norma Chernick (seated) pours coffee for members of the Hospitality Group gathered in the Brookhaven Center for the Spring Tea. Left to right are: Terri Pittenger, Chairman; Jane Love, Lee Schwender, Pat McKenzie-Wilson, Lela Radeka, and Grace Cohen. The tea was attended by over 100 ladies including some of the recent newcomers to the Lab.

# Registration Now Open For Summer Rec Program Swim Lessons — Play Sessions

The summer of '73 will bring back to BNL the Children's Summer Program. The revitalized Morning Play Session and the Swimming Lessons, sponsored by BERA, will be under the guidance of George Sabine, BNL's Recreation Supervisor. Both programs, which will begin on July 9, will be supervised by qualified counselors and instructors.

The Morning Play Session for on-site residents' children, will be held at the Recreation Building in the Apartment Area Monday through Friday from 9:00 to 11:30 a.m. Children may attend any or all sessions. The registration fee is \$10 per child and children must be at least five years of age in order to participate. This program will consist of games, play activities, and supervised instruction in sports. There will be various special events and parties.

Swimming Instruction will be conducted at the BNL Pool Monday through Friday from 1:00 to 2:30 p.m. Instruction will be provided for non-swimmers, beginners, advanced beginners, intermediate, and swimmers. Children will attend swimming lessons one day per week. The program is open to the children of all BNL employees and guest collaborators and consultants. Children must be at least 48 inches tall. The registration fee for the Swimming Program is \$10 per child.

The Childrens' Summer Program has met with great success in the past, and has provided a great deal of enjoyment and recreation for the "kids" during those long, hot summer days.

Each child participating in the program will receive a BERA T-shirt and will be eligible to attend the gala "water carnival" to be held in August at the end of the summer season.

Special events will be held on Fridays at 3:00 p.m. at the BNL Pool for children of all ages.

Applications for registration in the Summer Program can be obtained at the BERA Sales and Service Center in the Cafeteria. For additional information call the Recreation Office, extension 2873.

Sign your youngsters up for a summer of fun. Please don't be left out and disappointed. Register early! Deadline will be June 29, or before if class maximum is reached.

### **BERA Sales and Services**

BERA Sales and Services, located at the cafeteria, has the following tickets available for the Mets Baseball games for the months of June and July.

June 27 Sun. San Diego June 25 Mon. Chicago June 27 Wed. Philadelphia July 28 Sat. Montreal

Office hours: 7:30 - 11:15 and 11:45 - 2:30

### Classified Advertisements

#### **Placement Notices**

Each week, the BROOKHAVEN BULETIN lists personnel placement requisitions currently being processed. The purpose of these listings is, first, to give notice of all non-scientific staff positions being filled and, second, to give employees an apportunity to request consideration for themselves or others whom they wish to recommend to BNL. In filling vacancies, the Laboratory's objective is to give first consideration to present employees, as follows: employees within the immediate group having the vacancy, employees within the department or division, employees within the Laboratory as a whole.

For further information regarding a placement notice, please con-

tact Employment Supervisor, extension 2879 or 2882.

WAREHOUSEMEN (4) - Temporary summer positions. Supply & Materiel Division.

TECHNICIAN II - Duties will include operating various copy machines. Evening shift. Photography & Graphic Arts.

SECRETARY - Typing and general secretarial skills required for work in the hospital. Medical Department.

VETERINARY SERVICES ASSISTANTS - Temporary summer positions for college veterinary students.

Medical Department.

SECRETARY - General secretarial duties, including Stenorette. Director's Office.

### Autos & Auto Supplies

65 CHEVY - 6 cyl, std shift, clean, 30,000 mi. \$500. George, Ext. 4460.

68 LE SABRE - Ps/pb, am radio, 2 snows, motor excel, body slightly rusty. \$1200. Pat, Ext. 4763.

63 DODGE DART - 6 cyl, new rubber & batt, compl tuneup, excel running cond, body rusty. Tony, Ext. 4650.

62 VW VAN - 50 hp 66 VW motor, paneled, carpeted, sink, stove, toilet, stereo, sleeps 2, 11x15 beach tires, many extras. \$450. 281-0889 after 5.

PONTIAC BIG BLOCK - Tri-pwr manifold w/carbs, just rebuilt. \$30. 878-4115 after 4.

63 MERCURY MONTEREY - Needs muff, good 2nd car, very dependable. \$50. 281-5827 eves.
59 VW - Lt blue, excel mech cond, very clean, 4 spd,

r/h. \$850. Ext. 4670, 744-3945. 69 CHRYSLER - Good cond, ps/pb, air cond, extra

snows. 981-7109. 73 CHEVY VEGA - Flame red, hatchback, pop-out

windows, auto trans, extra snows, low mileage. \$1800. 981-7169. 70 OLDS 88 CONV - R/h, ps/pb, 2 dr, air cond, am/

fm stereo, very low miles, excel mech cond. \$1875. 289-0020 after 7. 64 DODGE POLARA - 68-440 eng, Hurst 4 spd, 4:88

rear, Sun & SW guages, headers, Holley. Asking \$800. 286-9197.

68 PONTIAC WAGON - Excel cond, auto, roof rack. \$1000 firm. Reilly, Ext. 3254, 744-8680.

71 MOTORCYCLE - 5 spd Motorcross w/Hodaka 100 cc eng. Asking \$225. Izzy, Ext. 3613.

VW AUTO TRANS - From 1968 bug, excel cond. \$125. M. Sautter, Ext. 4417, 924-3338.

69 PONTIAC FIREBIRD - 430 V8, ps/pb, air cond, new tires & shocks, auto trans, 37,000 mi. \$1800. 475-5094. 64 FORD ECONOLINE VAN - Good running cond. \$225. George, Ext. 3783, 732-6647.

66 WAGONEER - 4 w/d. \$1000, 286-3793 after 6.

70 VW SQUAREBACK - Auto trans, rear defroster, front disc brakes, new batt, excel cond, orig owner. Bob, 473-8186 after 6.

14" WHEELS - Chevy & Pontiac, \$5/pr; 2 bbl carb & manifold for 64-65 Rambler, \$5; all good cond. Bob, Ext. 4652, 289-0357.

TIRES - 4 ea .25x15, 2 snows, 2 reg, less than 1000 mi, for Volvo or Peugeot. \$50 absolutely firm. Ext. 3163, 732-9384.

### Classified Advertisements

### **Autos & Auto Supplies**

69 JAGUAR XKE 2 + 2 - Factory air, radials & radial snows, pc, p/disc brakes, workshop manual, wire wheels, low mileage, excel cond. \$3000. P. Sparrow, Ext. 4680, 727-4859.

2-13" RIMS - 5 holes. \$3. O. Booker, Ext. 4719.

#### **Boats & Marine Supplies**

30' OUT OF GLOUCESTER - Twin 135 Chrys Crown, flying bridge, dbl planked mahog, compass, depth sounder, ship to shore. \$7000. 924-8296.

SCORPION - 1:2' fiberalass sailboat, similar sunfish, fast, safe, \$350, 286-0798.

2 MICHIGAN PROPELLERS - R/h & I/h, 16x16, 1" shaft, \$25 ea; 12 yds Nautolex decking, white, 72" w. Mike, Ext. 4613.

21' SHOREBIRE: - Gaff rig sloop, f/g over wood, compl equippec, 4 hp Evinrude OB (10 hrs old). \$700. Ben, Ext. 2902.

NEW KILLIFISH TRAPS - \$10 ea. 878-2860.

20' SIGNET SAILBOAT - Fiberglass, twin keels, sleeps 4, NYS approved head, stove, sink, 5 hp OB, cover, sails, trailer, etc. \$3300. Bob, Ext. 2405, 941-4696 after 6.

17-1/2' FIBERGLASS SPORTCRAFT - 1970 Evinrude 85 hp motor, elec start, mech steering, '70 Little Dude trailer, much equipment. 928-2954.

14' BOAT & 10 HP MOTOR - Motor needs work. \$100. 924-6534 after 5.

19' MAHOG LAPSTRAKE - Windshield, new navy top w/side curtains, all access. \$550. 289-0524.

#### Miscellaneous

MINI SIX - 6 channels 5 watt mobile unit, all channels installed, excel cond. \$65. Paul, 281-5289.

DEEP WELL JET PUMP - 1 hp Gould vertical. \$25. Ted. Ext. 4126.

ANTENNA - Super Winegard rotor, indoor control,

mast, tripod mount, lead in, 1 yr old. \$90. 924-5192. STROLLER - Sw ss made, collapsible, \$5; highchair, folding, \$5; both good cond; bicycle baby seat, English style, \$5. Ext. 3790, 751-8158.

UTIL SINKS - 2, new-never used, all parts, \$5 both; ski boots, men's size 10-1/2-11, plus boot tree, \$3. Ext. 3790, 751-8158.

JACKETS - Boy's 12-16, \$4 & \$5; winter coat, woman's 15-16, \$29. A. Munsterman, 744-5871.

BEDRM SET - Maple, Bennington, Vt. dbl bed, Simmons Posturepedic box spring & matt, 42" dresser & mirror, desk & bench. Faust, 924-8296.

BEDRM SET - Never-used Ethan Allen, maple birch, dbl bed, unusec boxspring & matt, 6' dresser. Faust, 924-8296.

16" TRICYCLE - Infant; bike seat; crib; dresser &dressing table: micromet feeder, \$5; asstd elec dist & discon boxes. Ron, Ext. 4662, 289-1003.

2 BASS REFLEX SPKR CAB - 12" walnut spkrs, \$50; Dynamic mike w/stand, new, \$10; Alliance antenna rotor, \$10; 6m transceiver, Motorola 30w mobile, \$55. Ron, Ext. 4662, 289-1003.

TELEPHOTO LEINS - 300mm Soligar auto, new, fit Cannon, \$40; Yashica 8 mm movie camera, zoom lens auto, good cond, \$20; 2 teletype units. Ron, Ext. 4662, 289-1003.

CASTRO CONV LOVE SEAT - 40"w, green, \$60; mod lamps, \$15/pr; end tables, \$8/pr; all excel. 289-8212.

3 PC MOD LIV FM SET - Tapestry covered w/plastic slipcovers, hardly ever used; Holton trumpet w/case, Bach mouthpiece, like new. 732-8216.

CLAIROL DYNEL WIG - "Moment's Notice" blond beige, worn once. Orig cost \$24, sell \$13. Linda, 878-4115 after 4.

ANTIQUE COFFEE GRINDER - 100 yrs old, good cond. \$100. 472-1356 after 6.

GOLF CLUBS - 71 Golden Rem, full back irons 2-9 pw, extra length, It was steel, stiff shaft. \$100. B. Vogt, Ext. 4241.

GIRL'S SCHWINN STING RAY - 3 yrs old, 20" wheels excel cond. \$25. 281-5827.

DECOYS - 15 Canadian Goose plastic oversize decoys, \$45; 9 mallard plastic oversize decoys, \$18. 286-

CEDAR CHEST - Beautiful, like new; floor model safe, reasonable, like new; steel desk, 3-drawer, flip top, \$35, Ext. 3316, 698-1362 after 6.

SLIDE RULE - Pickett log-log model, w/case & manual. \$10. Ext. 4132.

W/W CARPET - Rust velvet, 20 sq yds plus, like new, 1-1/2 yrs, acrifan. 981-1749.

GREAT DANE PUPPIES - 6 wks, fawn, AKC reg, champion lines, shots. \$125-\$150. 981-7169.

DRAPES - 95"x120" w in 2 section, It green, pleated fiberglass. \$10. Bob, Ext. 3121.

MOBILE HOME IN FLORIDA - 1972, 72x12, 3 bedrms, 2 full baths, lived in 6 mos, unfurn. Sal, 878-2486.

2 BEDRM SETS - Drapes (2 pr/set) w/bedspreads, 1 gold/blk, 1 red 3-tone. \$25/set. 281-8557.

TRICYCLE - Child's, sturdy, used, \$5. Ext. 3402.

HUNGARIAN VISLA - 2 yrs old, w/papers, male, loves children but too big for my little ones. \$80.744-2316:

70 MUSKRAT TRAPS - 20 muskrat stretchers, excel cond. \$50. 286-9485.

SCOTTS SPREADER - \$7; water skis, \$15. Ext 3499.

FREE - Puppy needs home full of love & care, 6 wks

MAPLE COLONIAL BEDRM SET - Dresser, bkcase headboard, deck, chair. Ext. 3047.

1967 COLEMAN HARDTOP CAMPER - Sleeps 6. new tires, canopy, heater & stove incl. \$600. 751-3686.

1970 APACHE CAMPER - Stove, sink, icebox, sleeps 6. 281-8317 after 2.

1972 COX CAMPER - 8'x10', stove, sink, table, heater, icebox, sleeps 8, used once, like new. 281-3597.

AMPLIFIER - Ampege Gemini II. \$150. 281-5205.

REFRIG/FREEZER - Hotpoint Crest 18, 12 yrs old, looks & runs like new, best offer. A. Reichlen, 473-3077.

ORLON YARN - Variety of colors, will deliver to Lab or may be picked up at my home. \$2.50/lb, \$1.25/ 1/2 lb. Ann, Ext. 3163, 732-9384 after 6.

ALL-WEATHER COAT - Boy's size 18, zip-out lining, like new, \$10; A. J. Hamilton, Ext. 2421.

GE TV W/STAND - Old but works, good for parts. \$5. Jim, Ext. 2421, JU1-1224 eves.

BICYCLE - Boy's 24", 5 spd. \$25. Hugh, 732-6647.

7' SOFA - Good cond, \$25; steel stringed guitar, \$15; snare drum, \$10. Ext. 4760, 744-2688.

1964 NIMROD POP UP TENT TRAILER - W/add a room, many extras. Ext. 2043, 588-2328.

CUB SCOUT UNIFORM - Size 8-10, used only a few times, very reasonable, must sell. Mrs. Hug, 289-6676.

RELOCATING ON WEST COAST - Must sell household things: clothes, paperbacks & more. Mrs. Huq,

BABY ITEMS - Carriage, \$20; play high chair, \$10; good cond, by Biltrite. Jack, Ext. 2907.

FREE - Kittens, 6 wks, 1 orange male, 2 blk females. Alina, Ex. 3618, 281-7547.

DRESS FORM - Sears twin fit, wire, used once, perf cond. New costs \$45, sell \$25. Chet, Ext. 3612.

LILLY OF THE VALLEY PLANTS - Hardy & blooming, freshly dug on order, 5¢ ea; hand meat slicer, \$2.75; very old long-handled water pump, \$25. 727-1617.

OLD IVORY DRESSER SET - 5 pc, tray, oval picture frame, 2 containers, clothes brush. \$7.50. 727-1617.

EUREKA VACUUM CLEANER - Tank type, brand new, used once. \$35. R. Lundgren, Ext. 2434.

TRAILER - 20' Starcraft 1972, sleeps 6, heat, hot water, tandem axle, air cond, spare wheel & tire, self contained, elec brakes, pwr converter. \$3200. 929-4597.

VENTURA FOLK GUITAR - Brand new. \$50. R. Baker, 473-1967.

FR PROV BEDRM SET - Dbl bed, triple dresser w/mirror, night table, very good cond. \$100. Naomi, Ext. 3618.

17' TRAVEL TRAILER - Compl self-contained, heat, gas, elec, refrig, h/w heater, stove, very good cond. EM3-6379.

WURLITZER ELEC ORGAN - 2 decks, good cond. \$600 firm. 286-1454 after 6.

TV - Needs minor repair, sell cheap, old (78) phonograph records. O. Booker, Ext. 4719.

CABIN CRAFT ACRILAN RUG - Gold, octagon shape, 6' across, fringed, fair cond. \$15. Ext. 4045, 289-5770

FREE - 3 male, 2 female kittens, 5 wks old, asstd colors. 281-7627.

#### Real Estate

Real Estate advertised for sale or rent is available without regard for the race, color, creed or national origin of the

#### For Sale

SETAUKET - 4 bedrm air cond house on priv 1/2 acre, old trees, screened porch. \$34,000. 941-3778.

MASTIC BEACH - 2 bedrm ranch, Ig liv rm, din rm eat-in kitchen, full bsmt, Florida rm, garage, 500' from bus line, walk to village, carpeting. \$29,000. Ext. 3499, 281-8349 after 5.

STONY BROOK - 4 bedrm colonial w/paneled fam rm, mud rm, patio, fully carpeted, 4 appliances, 2-1/2 baths, 2 car garage, avail Aug, 6% mort. \$41,500. 751-6372.

#### **For Rent**

STUDIO APT - Quiet, convenient location in Pt Jeff. \$181/ma 941-4581

3 BEDRM HOUSE - June 21 - Aug 19, 1973, range, fam rm, liv rm. Ext. 3768, 698-1363 after 6.

FURN RM - Pleasant household, kitchen privileges, 10 min from Lab. Inquire Ext. 3316, 698-1362 after 6.

SHOREHAM - 2 bedrm furn house on LI Sound, 1 yr lease from Aug 1. \$240/mo. 744-9866, 914-EL8-8098. 3 BEDRM FURN HOUSE - Spacious grounds, avail

### July 1, references. \$325. 363-7032. Wanted

Employee's Signature.

TO RENT - 2-3 bedrm house or apt. C. Daniels, 732-7677.

BOAT TO RENT - Sailboat primarily for family (4) sailing on Bay, desired for mos of July & Aug. Ext. 3314.

FILE CABINET - 2 or 3 drawer. Susan, Ext. 3462.

TOP SOIL - Also good fertilizer, reasonable. Ext. 3316, 698-1362 after 6.

CLEANING WOMAN - 1 day/wk, reliable & trustworthy, own transp, for working couple. 475-8658

GOOD HOME - For 3 spunky kittens, 2 males, 1 female. Free (Cheaper by the ¼ doz). Ted, Ext. 4581, 473-2973.

HOMES - For 3 adorable kittens, 2 callico, 1 multicolored. 732-3919 days, 732-3135 after 7.

MESH PLAYPEN - Also stroller, folding, swivel front wheels. J. Hayes, Ext. 2262, 475-7025.

TENT - Must sleep 3, good cond, reasonable. Mrs.

Hug, 289-6676.

HUBCAP - For '69 Pontiac Catalina. Rudi, Ext. 4393.

TO RENT - Some wkends in summer, apt or rm in house w/priv beach or pool, or swap for city apt. R. Horowitz, Ext. 4134.

### Carpools

CARPOOL WANTED - St James area or leaving from Stony Brook RR station, E. Cherniaysky, Ext. 2406.

DRIVER WANTED - To compl existing carpool from Exit 52 (or further west) on LI Expwy. Elliot, Ext. 4457.

#### Services

DOCK BUILDING & BULKHEADING - Reasonable rates. R. Hupfer, 286-0957.

SUPER GARAGE SALE - Memorial Day wkend, Bellport Rd., Yaphank, between Horseblock & LI Ave, baby items, furn, bric-a-brac. 924-8296.

PLOWING & ROTILLING - Free estimates. Ken, 289-8212 eves.

TREE REMOVAL & CHAIN SAW WORK - Free estimates. Ken, 289-8212 eves.

EXT & INT PAINTING - Done by 2 college students, experienced, many references avail, free estimates. 941-4328, 751-6431.

CUSTOM ROTOTILLING - Lawns, flower beds & gardens, etc. Bob, 732-9517.

MOTHER'S HELPER - To work on site only, 8:30-5, 1-3 day/wk. Deborah, 589-3485.

HATHA YOGA FOR WOMEN - Relaxation, breath & body control through Yoga postures, sm classes, day or eve. HR2-1397.

LEARN TO SAIL - Get a sloop for graduation, compl novice course, 17-26' rental sloops. 473-7534.

TREE SERVICE - Removal, trimming; oak cord wood, \$55/cord delivered, 727-1617. BARN SALE - Sat & Sun, May 26-27, 35 Park Ave. Blue

Point; rototiller, spreader, Wright saw, rotisserie, etc. Ext. 3688. MAKE YOUR RESERVATIONS EARLY - For vacation

in Vermont, \$40/couple wkly in new chalet LT 9-0277 LADIES' COCKTAIL RINGS - W/diamonds and/or

colored stones; new, below wholesale; also men's rings, R. Horwitz, Ext. 4134. YARD SALE - New & used interesting items, low

prices; Sat, Sun & Mon, May 26, 27, 28; 10-5. Call 281-5709 or v isit 209 Revilo Ave, N. Shirley (follow signs on Floyd Pkwy).

### Classified Ad Policy

### Deadline is 12 noon Monday for publication Friday of the same week.

1. The Brookhaven Bulletin's classified section may be used only by active and retired Laboratory employees.

2. All items for sale or rent must be the advertiser's

property. 3. Ads for material acquired for resale in association with

Send to: Brookhaven Bulletin, 40 Brookhaven Avenue (Ext. 2345).

a full or part-time business cannot be accepted. 4. Firearms offered for sale or trade may not be brought

5. Ads not carried because of space restrictions will be held for publication in the next issue 6. Ads are run only once and must be resubmitted if they

are to be repeated. 7. Ads should be restricted to 20 words or less and typed or printed on the form provided, and must bear the employees sianature.

Life No. ..... Ext. ....

| For Sale: Auto & Auto Supplies<br>For Sale: Boots & Marine Supplies<br>For Sale: Miscellaneous    | Wanted<br>Carpools<br>Lost & Found<br>Services | Check x the heading applying to your ad<br>Print or type your ad in 20 words or less |
|---|--|--|
| concerning property for sale or rent cannot be<br>ce of the Brookhaven Bulletin, Room 111, 40 Bro |  | Real Estate Ad forms are available at the  |
| <br>  | <br>   |  |
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| <br>  | <br>   | (Name & Phone No. To Call)   |